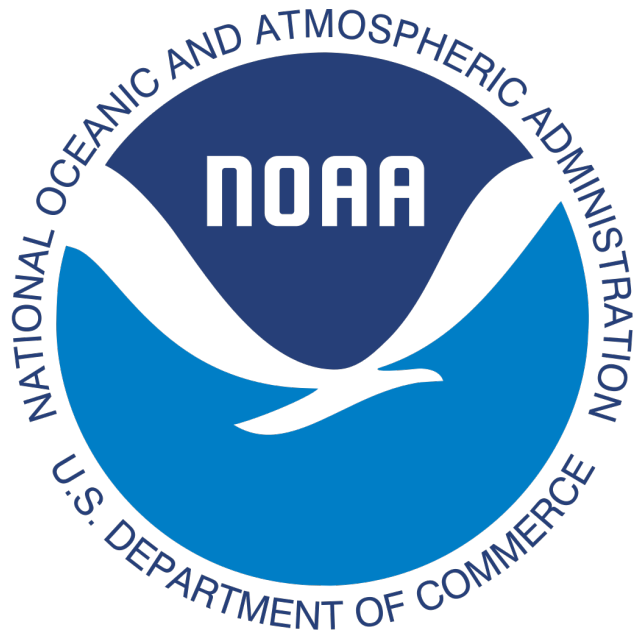


# NATIONAL WEATHER SERVICE UPDATE

Amanda Lee  
NWS Grand Forks  
[amanda.lee@noaa.gov](mailto:amanda.lee@noaa.gov)



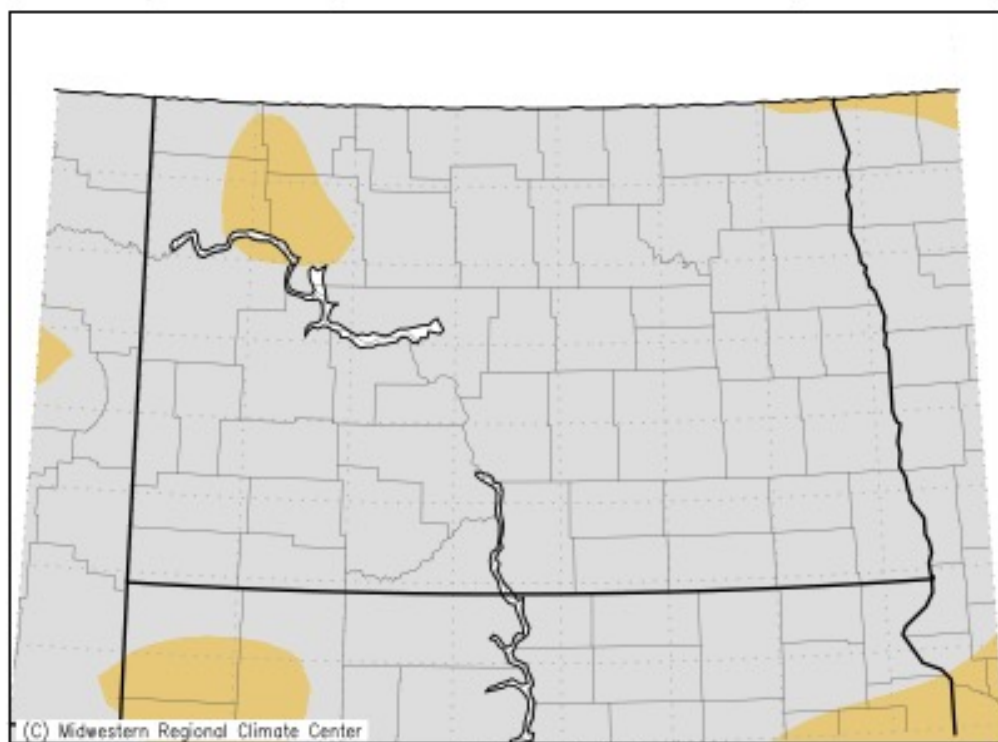
# OVERVIEW

- Fall/Winter/Spring Review
- Upcoming Forecast/Climate Outlooks
- Lake Outlook



# FALL TEMPERATURES AND PRECIPITATION (September - November 2022)

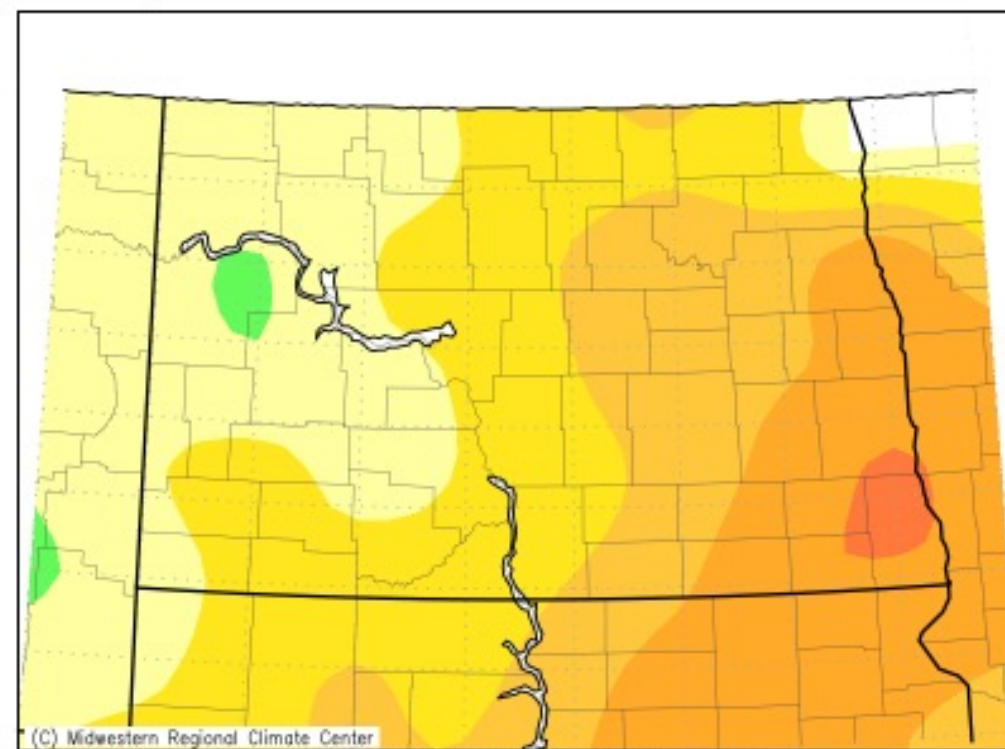
Average Temperature (°F): Departure from Mean  
September 1, 2022 to November 30, 2022



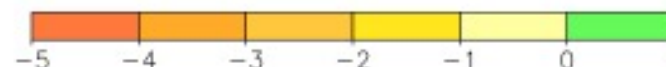
Mean period is 1991–2020.



Accumulated Precipitation (in): Departure from Mean  
September 1, 2022 to November 30, 2022



Mean period is 1991–2020.

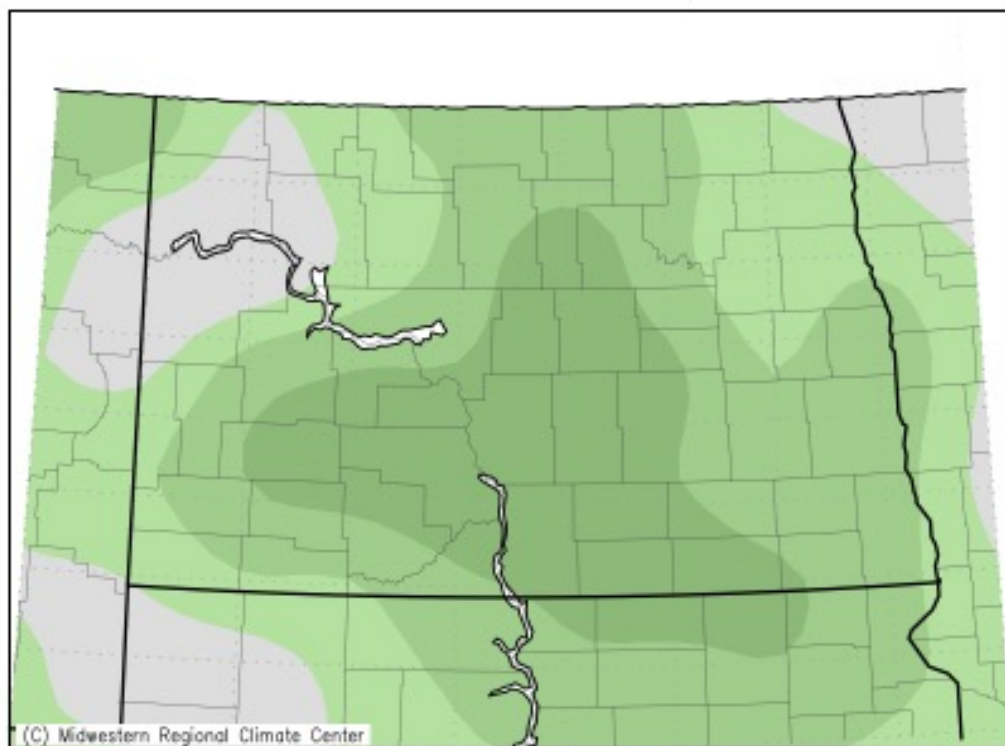




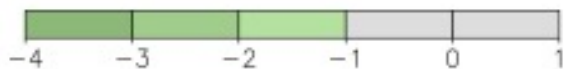
# WINTER TEMPERATURES AND PRECIPITATION

## (December 2022 - February 2023)

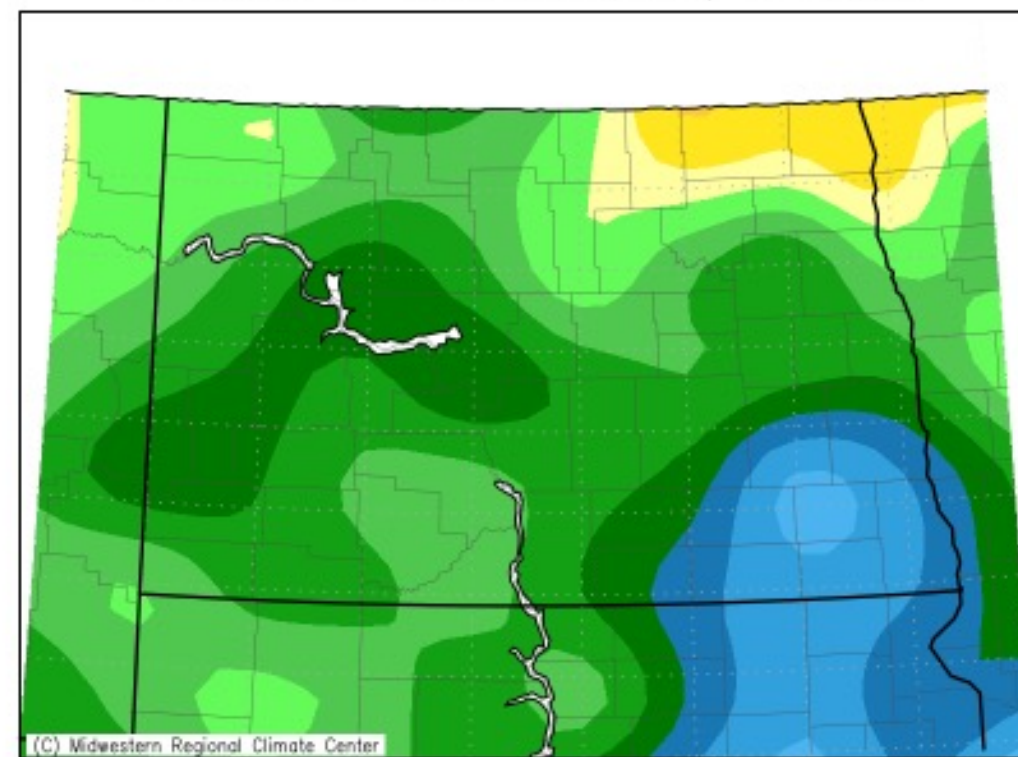
Average Temperature (°F): Departure from Mean  
December 1, 2022 to February 28, 2023



Mean period is 1991-2020.



Accumulated Precipitation (in): Departure from Mean  
December 1, 2022 to February 28, 2023



Mean period is 1991-2020.



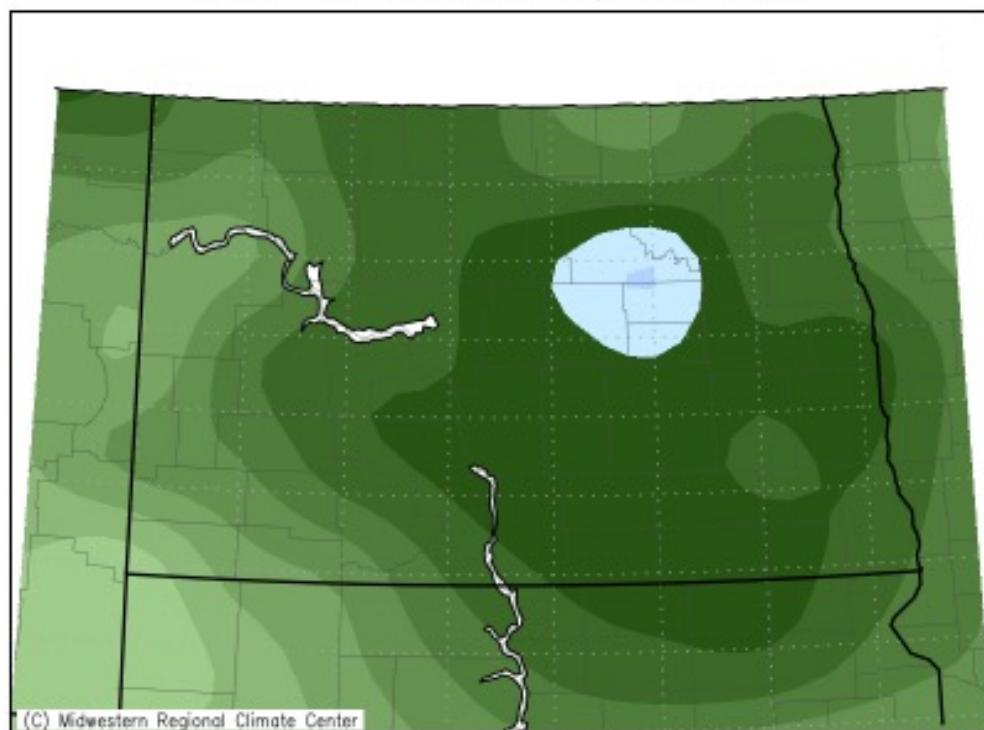




# SPRING TEMPERATURES AND PRECIPITATION

(March 1, 2023 – May 15, 2023)

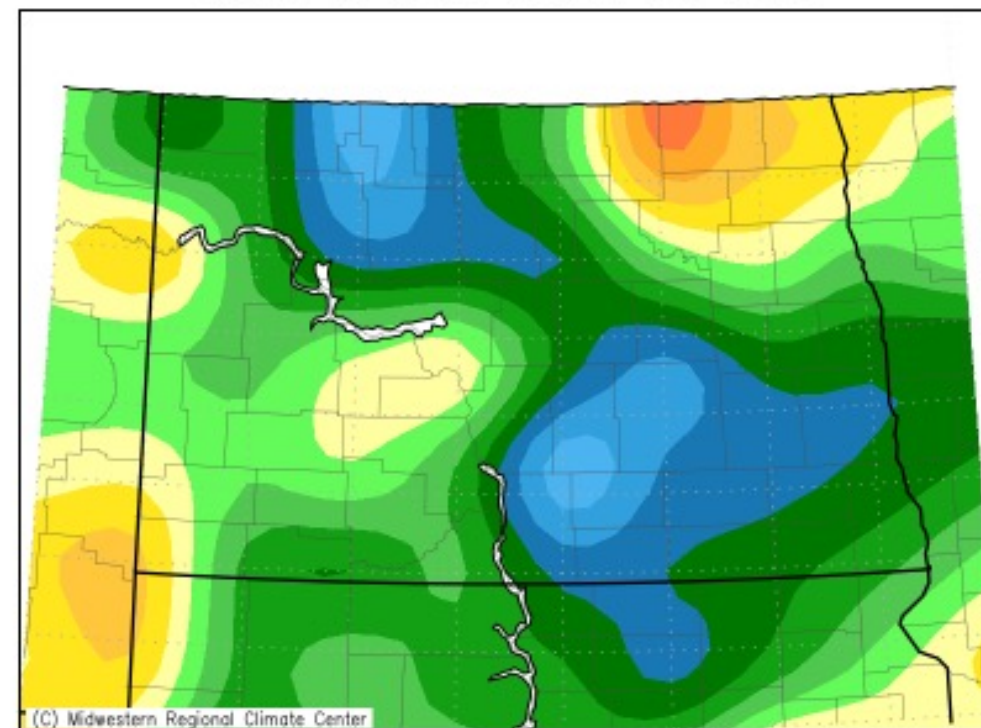
Average Temperature (°F): Departure from Mean  
March 1, 2023 to May 15, 2023



Mean period is 1991–2020.



Accumulated Precipitation (in): Departure from Mean  
March 1, 2023 to May 15, 2023



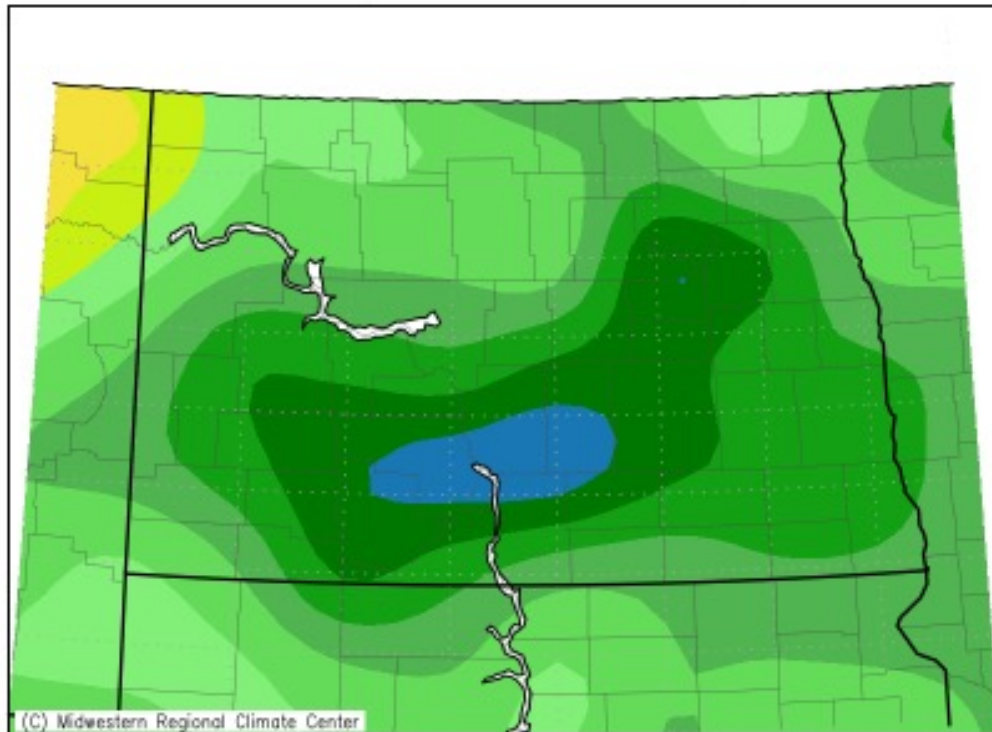
Mean period is 1991–2020.



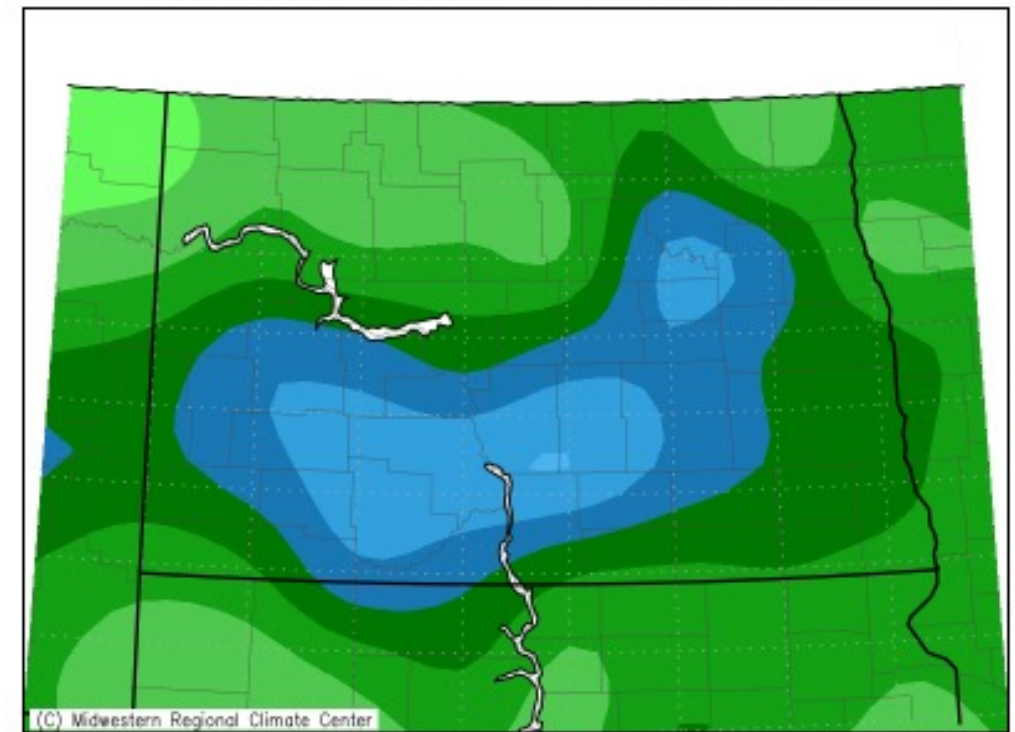


# "COLD SEASON" SNOWFALL (November 2022 - March 2023)

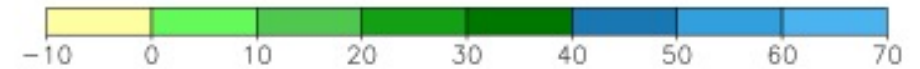
Accumulated Snowfall (in)  
November 1, 2022 to March 31, 2023



Accumulated Snowfall (in): Departure from Mean  
November 1, 2022 to March 31, 2023



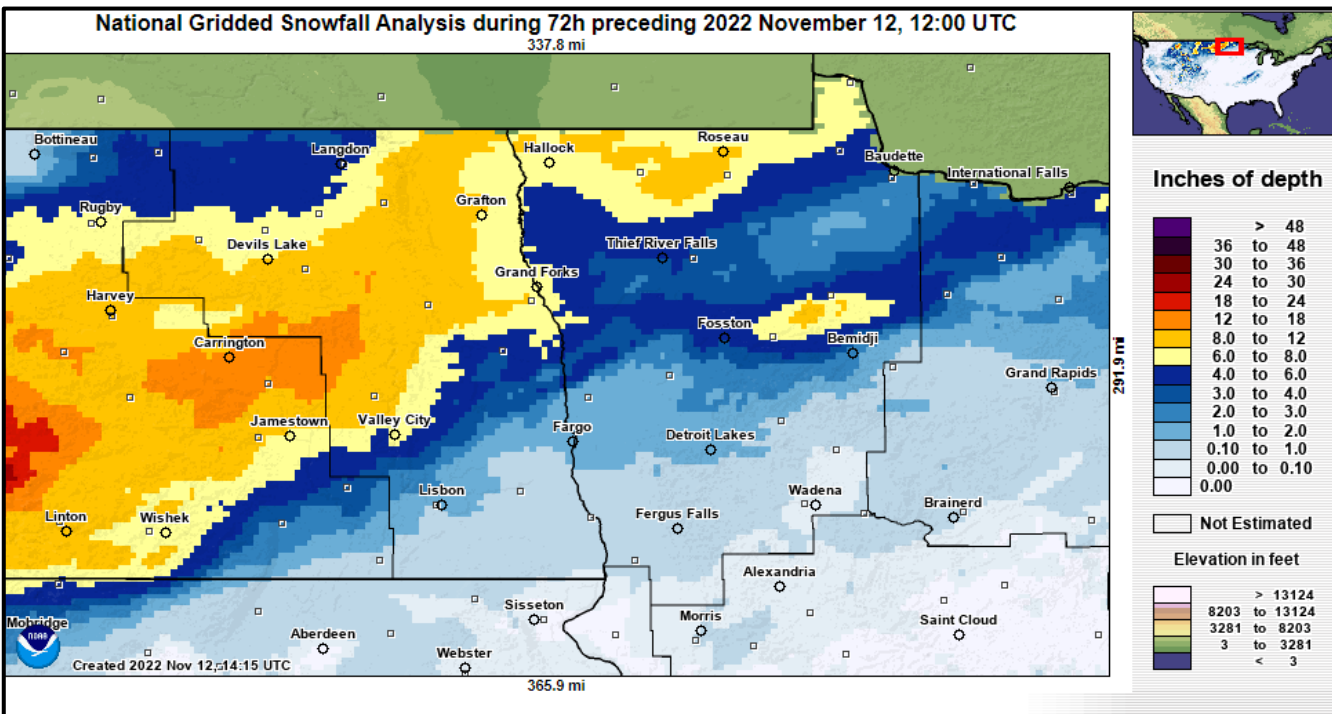
Mean period is 1991-2020.



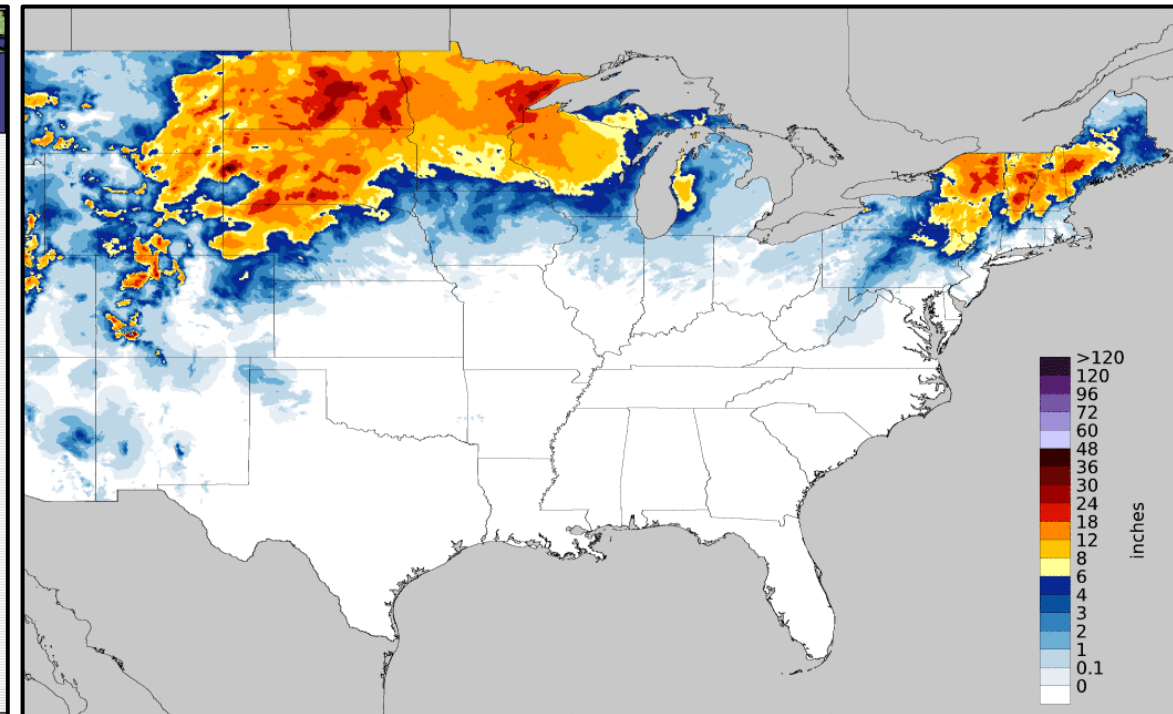


# LARGEST 2022-2023 WINTER SNOWS IN THE DEVILS LAKE BASIN

- Amassed a large snowpack very early
- Much below normal temperatures allowed it to linger well into April



November 9-11, 2022



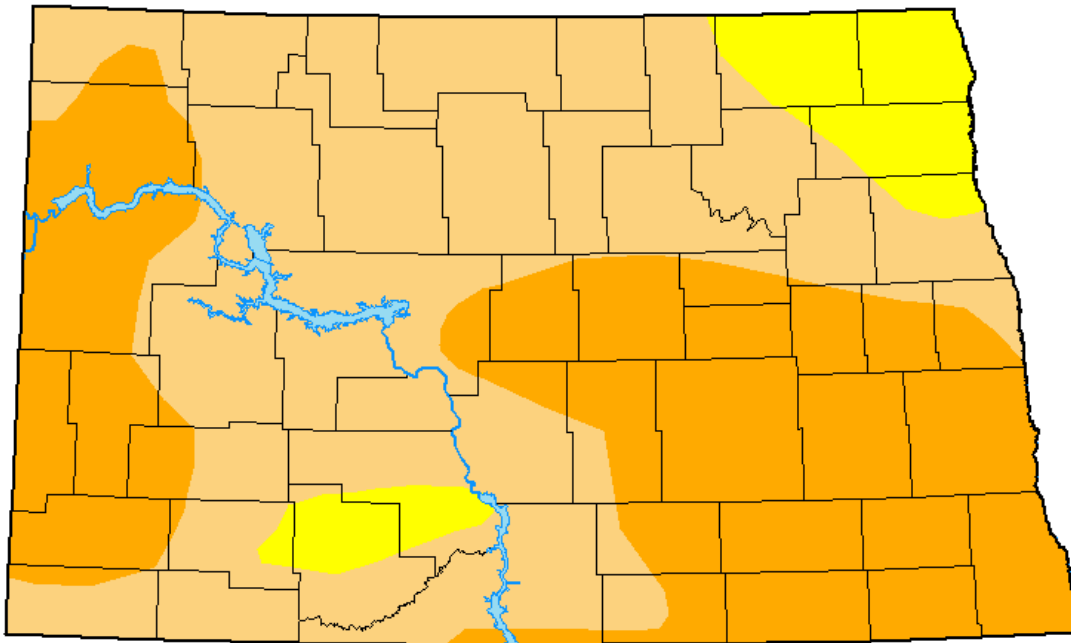
December 13-16, 2022



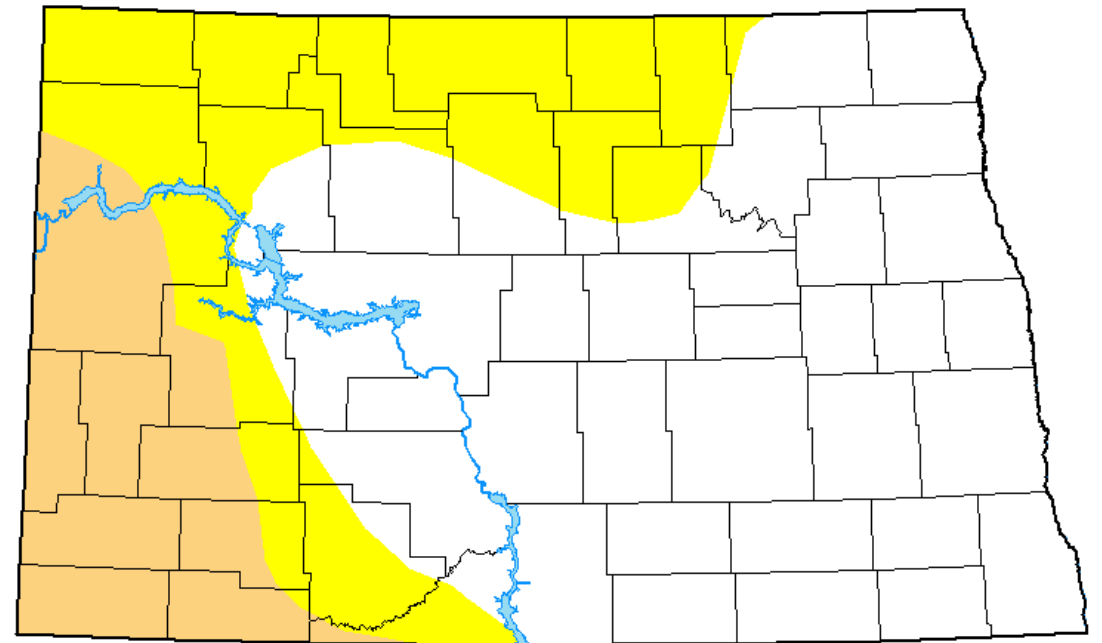


# U.S. DROUGHT MONITOR

November 3, 2022



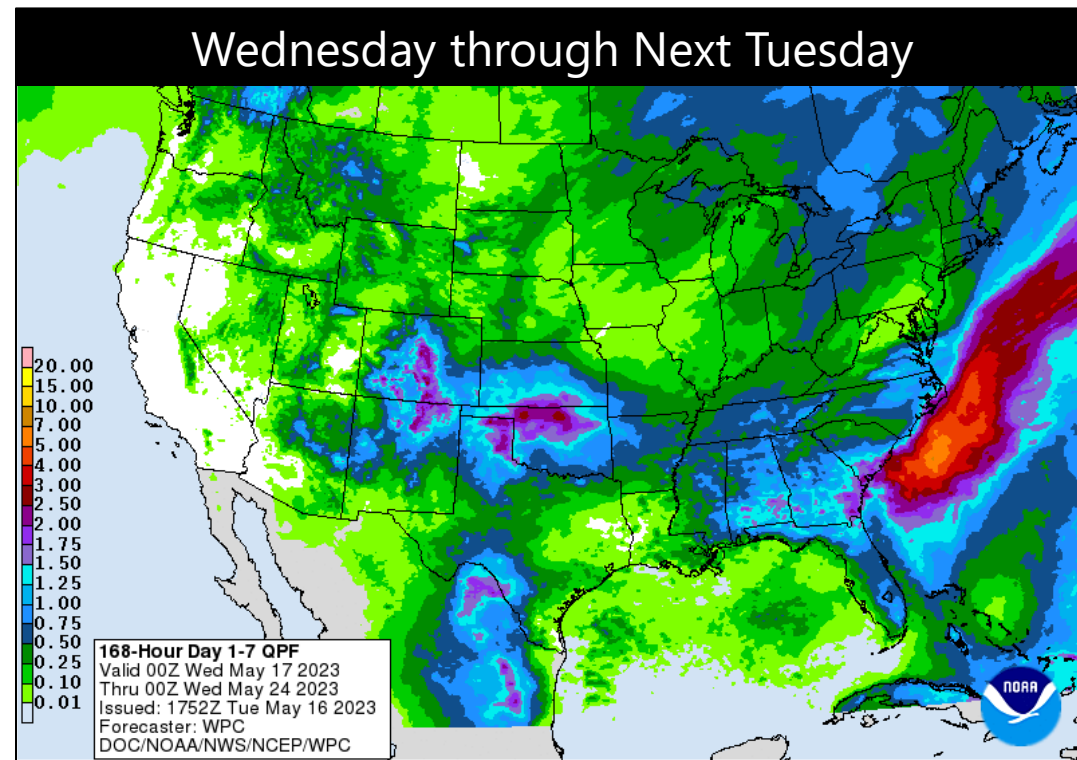
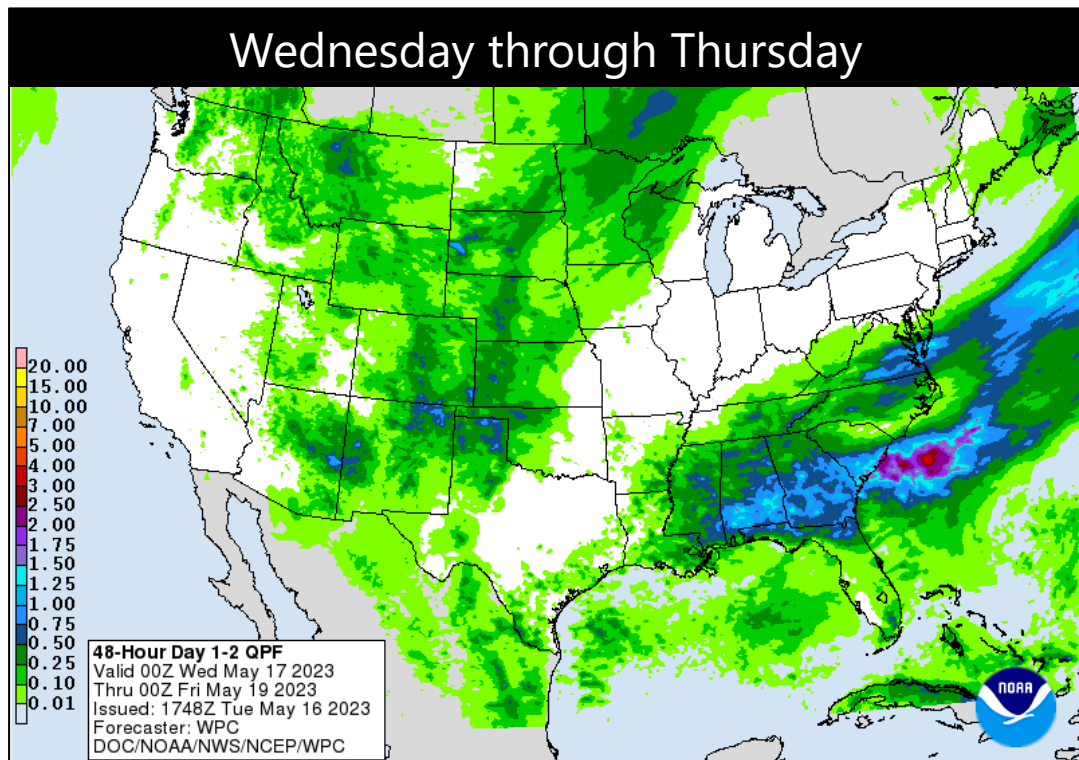
May 11, 2023





# ONE WEEK FORECAST

- Chance for isolated storms today with showers lingering into Thursday
- Followed by cooler and drier conditions before warming again for the weekend

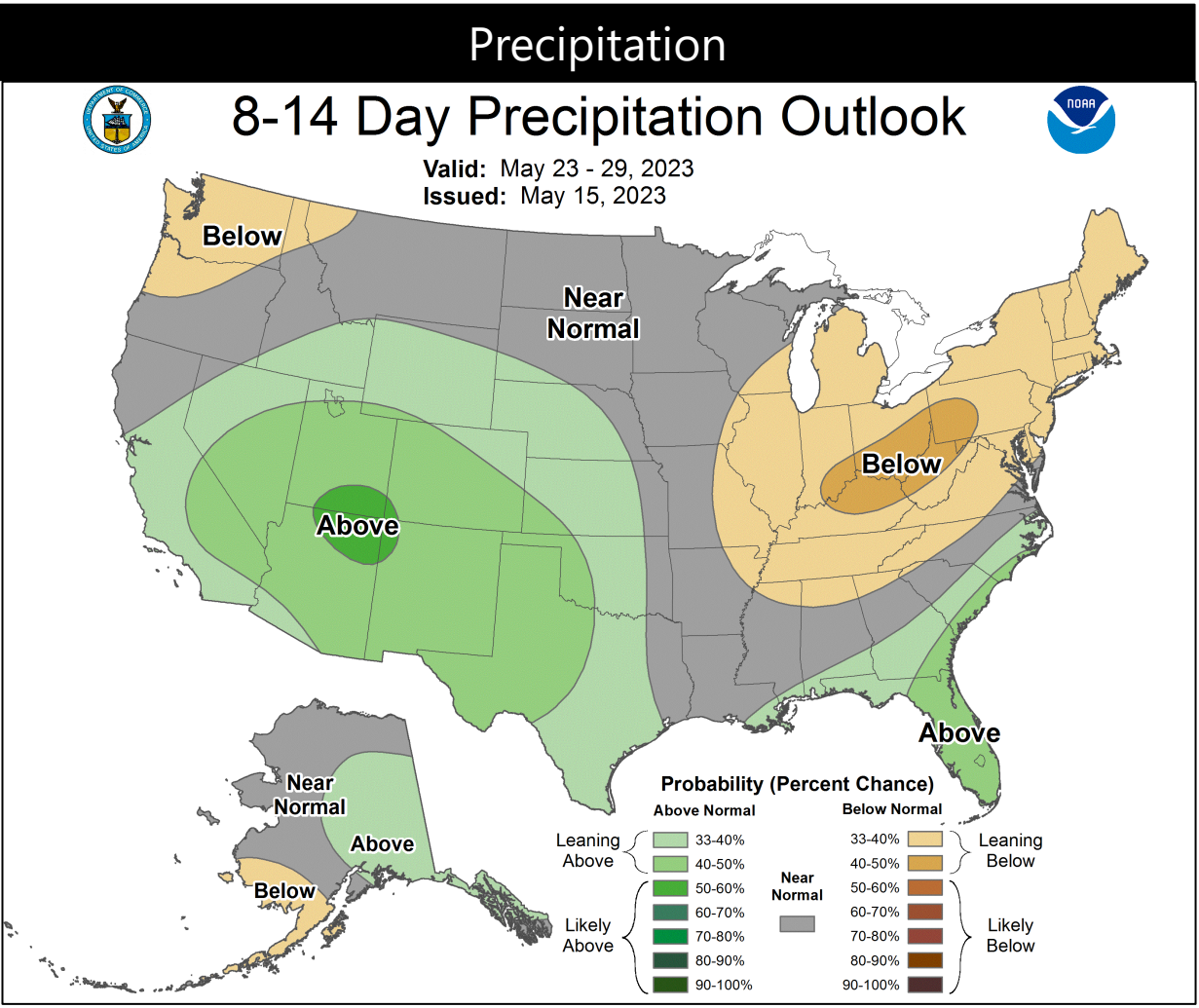
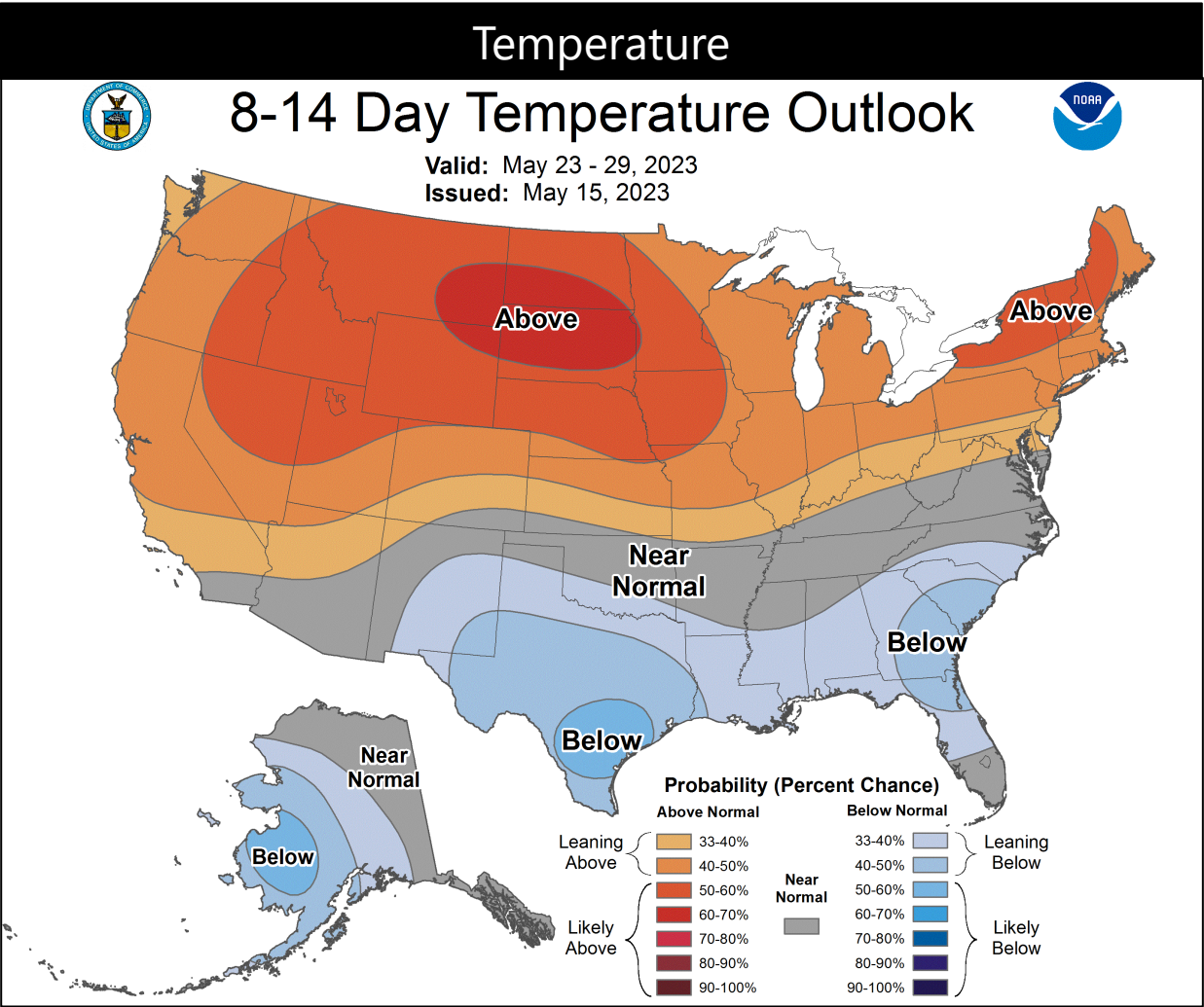


\* Forecast as of Tuesday afternoon





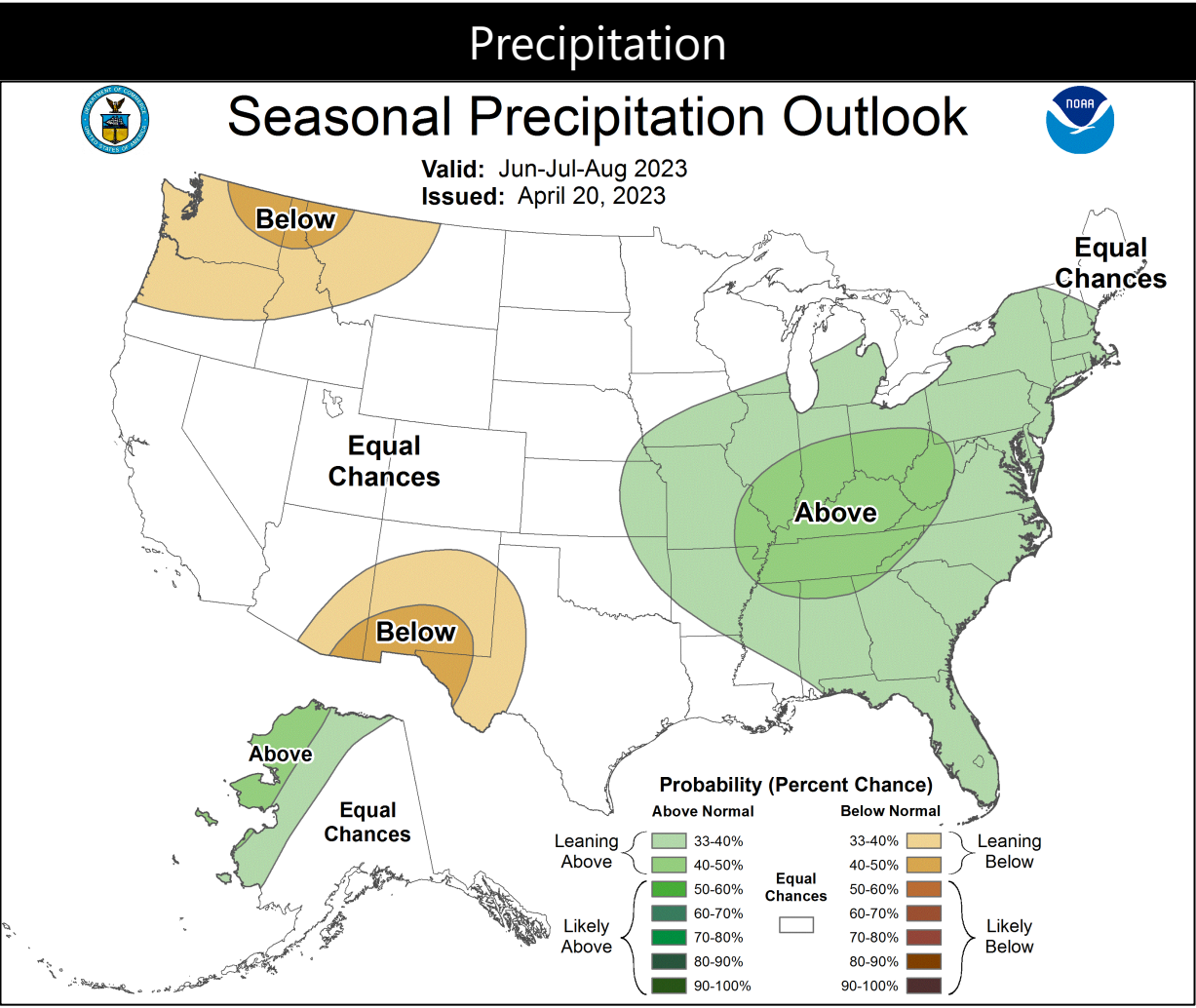
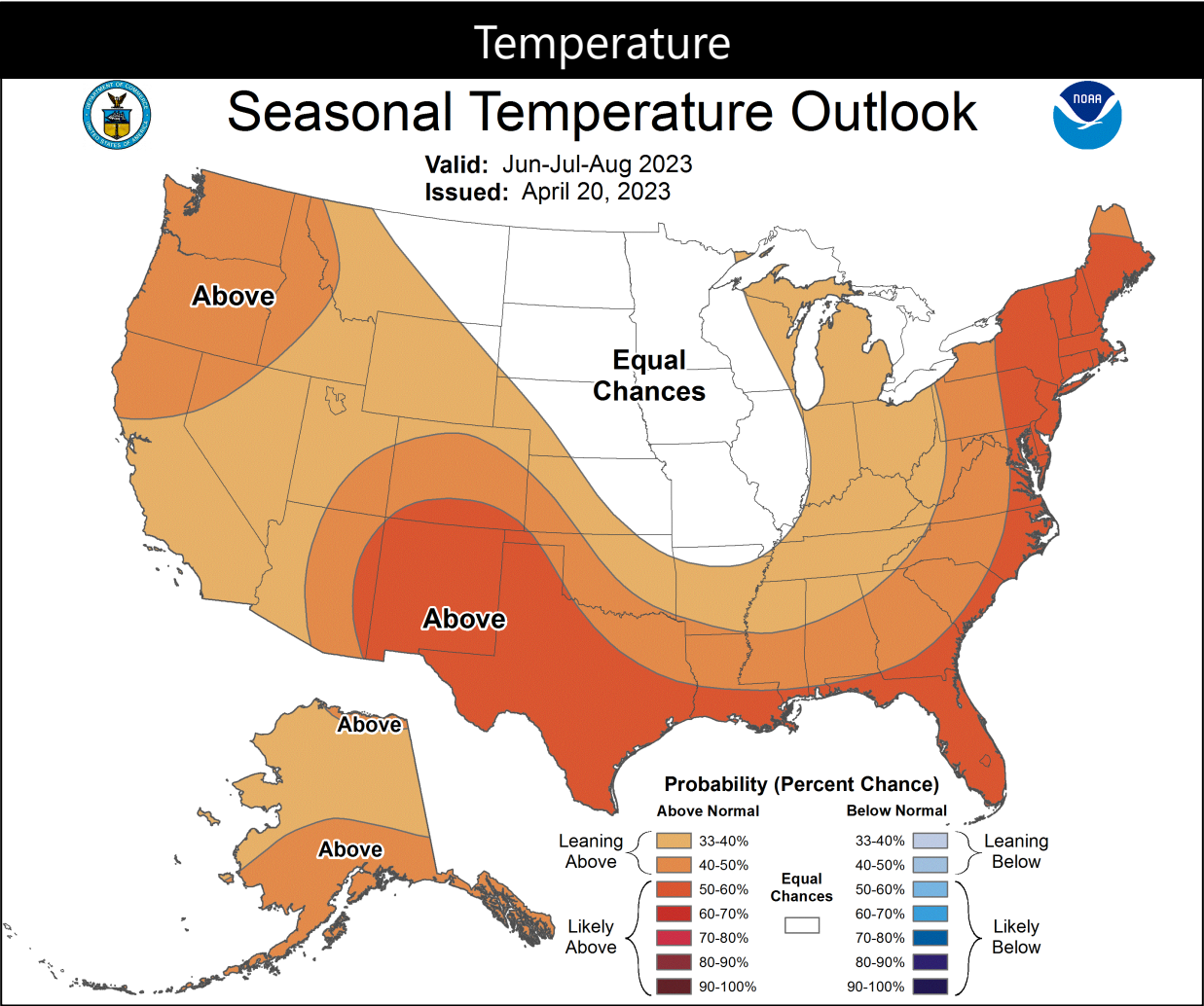
# LAST WEEK OF MAY





# SUMMER OUTLOOK

(June, July, and August)

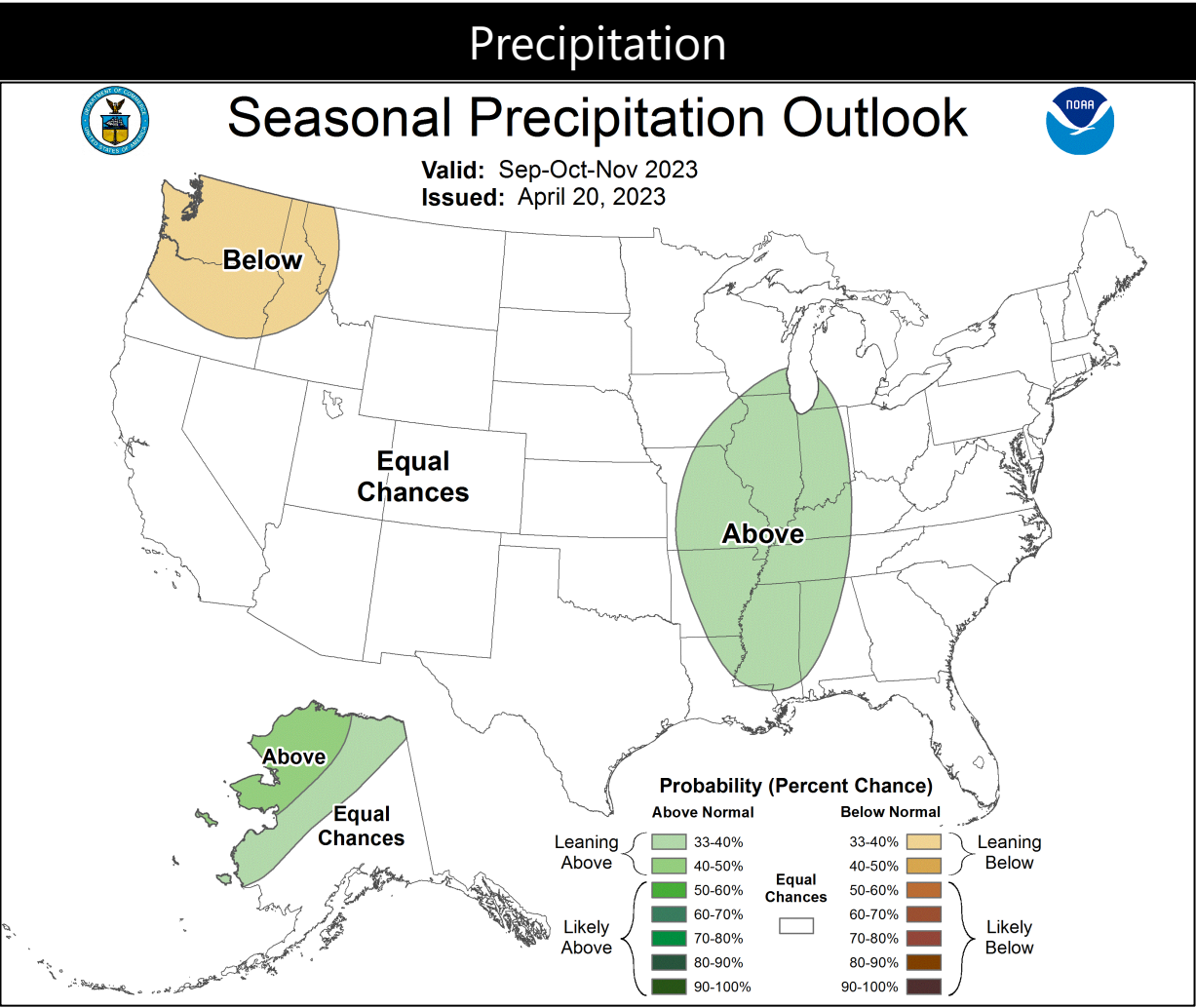
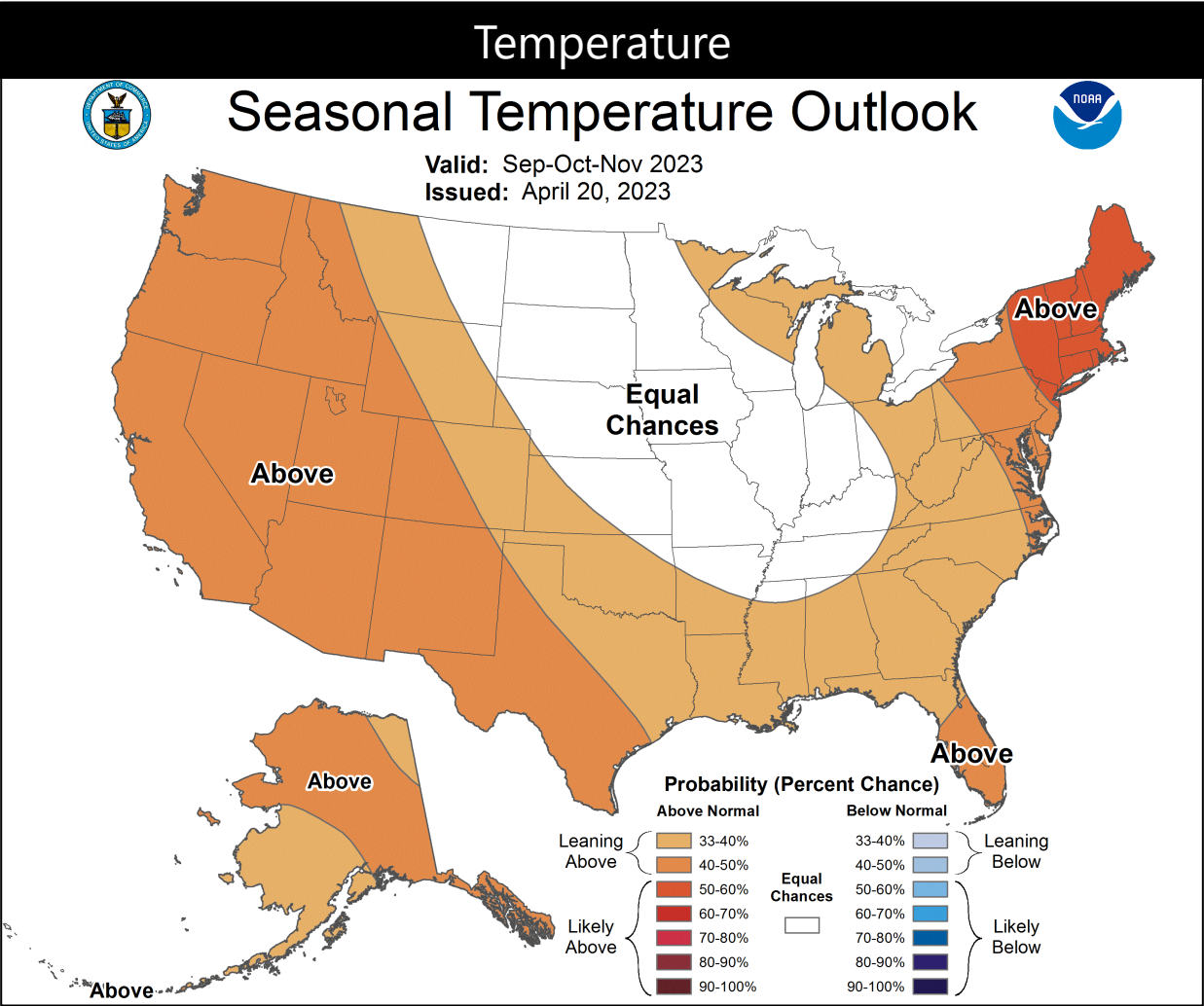






# FALL OUTLOOK

(September, October, and November)

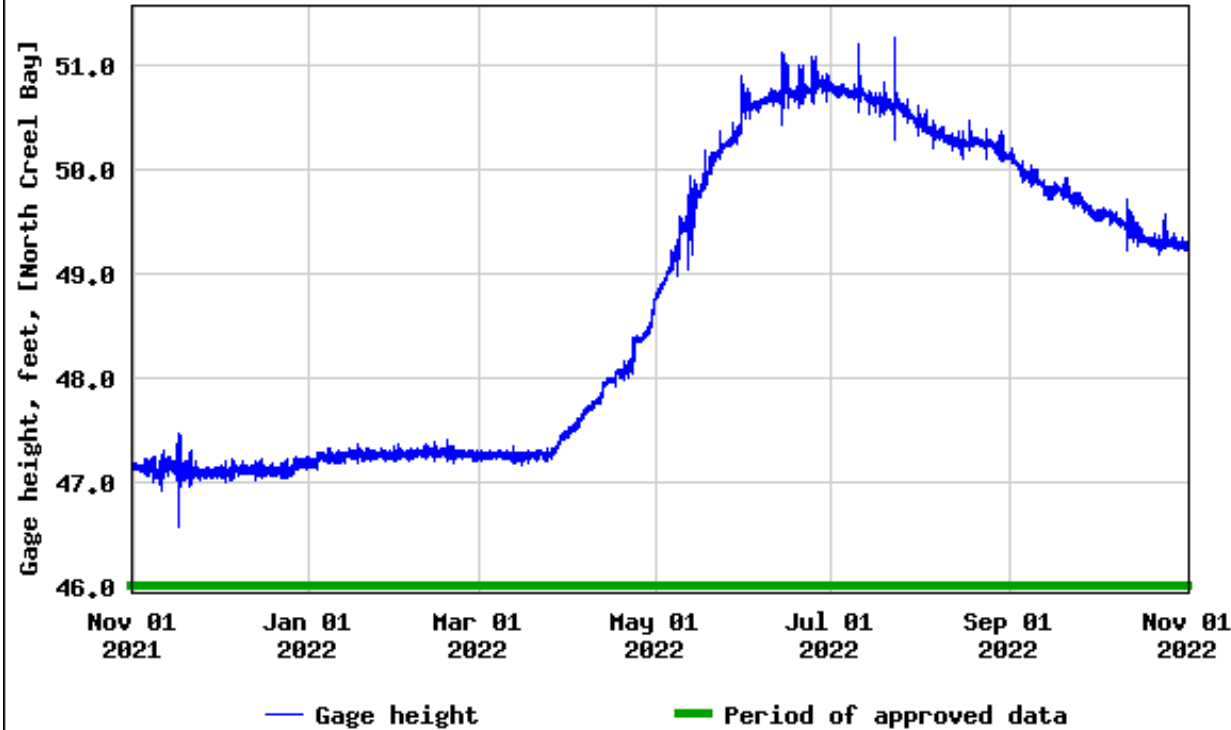




# LAKE LEVELS

November 1, 2021 – November 1, 2022

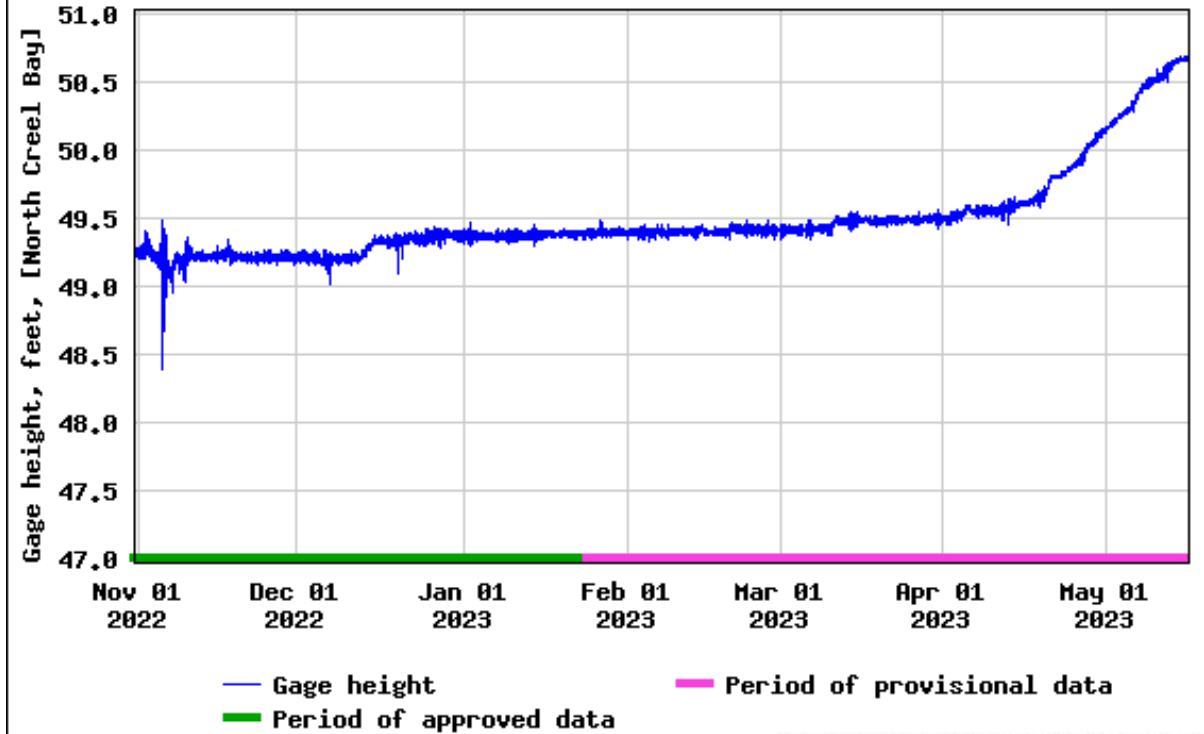
USGS 05056500 DEVILS LAKE NR DEVILS LAKE, ND



Graph courtesy of the U.S. Geological Survey

November 1, 2022- Current

USGS 05056500 DEVILS LAKE NR DEVILS LAKE, ND



Graph courtesy of the U.S. Geological Survey



# OUTLOOK PROBABILITIES

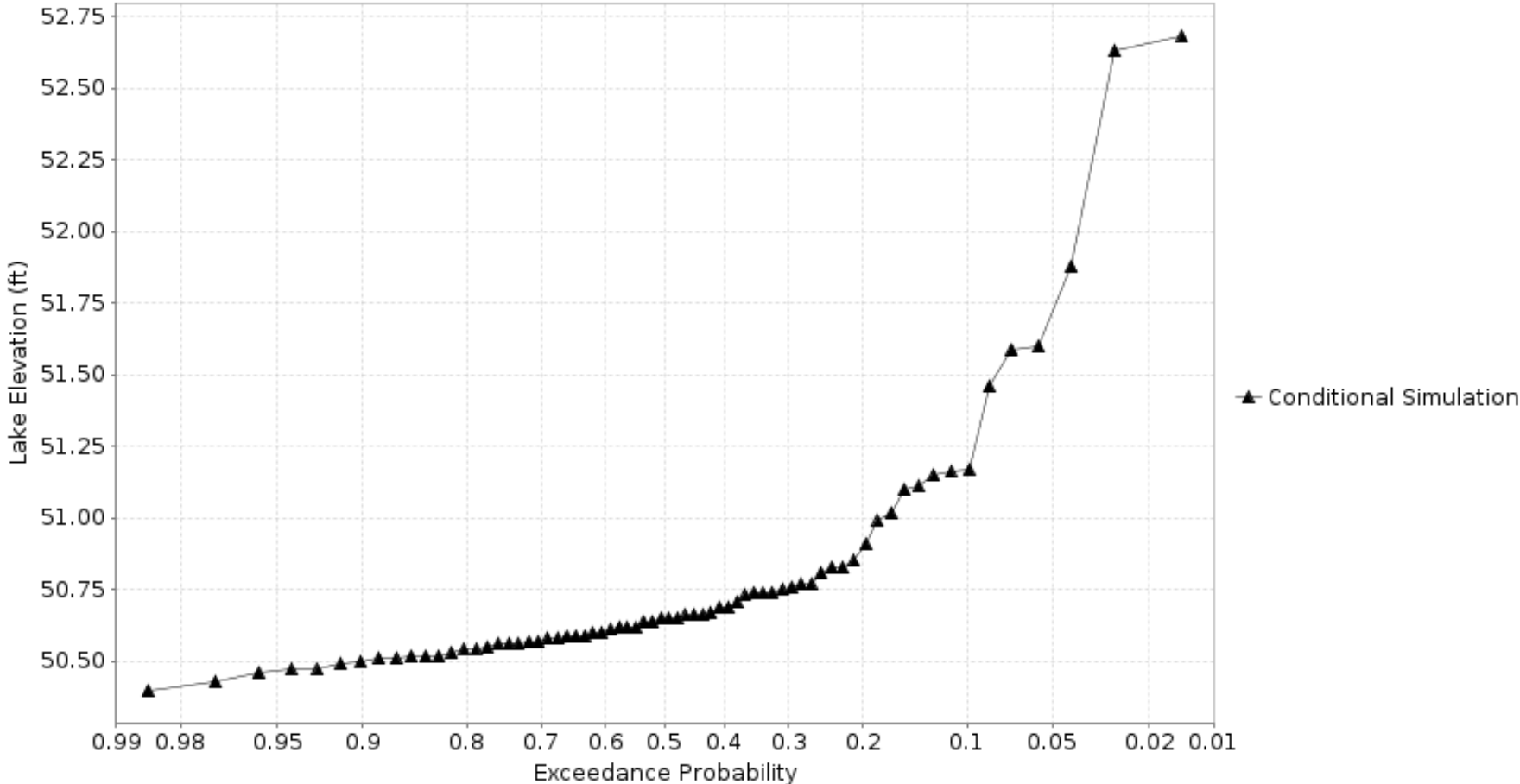
- Outlooks currently incorporate 350 cfs from June 1 to November 10
- Can be adjusted for future outlooks depending on what the committee recommends, pumping plans, etc.





# OUTLOOK PROBABILITIES

Probability of Rising to High Lake Levels on the Devils Lake at Devils Lake 5SW-Creel Bay (DCBN8)  
Forecast for the period 04/24/2023 - 09/30/2023  
This is a conditional simulation based on the conditions as of 04/24/2023  
Pumping schedule : 350cfs Jun 1 - Nov 10



## Current Lake Level

Creel Bay  
1450.67 ft (5/16)

Stump Lake  
1450.47 ft (5/16)

## Next Outlook

Thursday,  
May 25, 2023

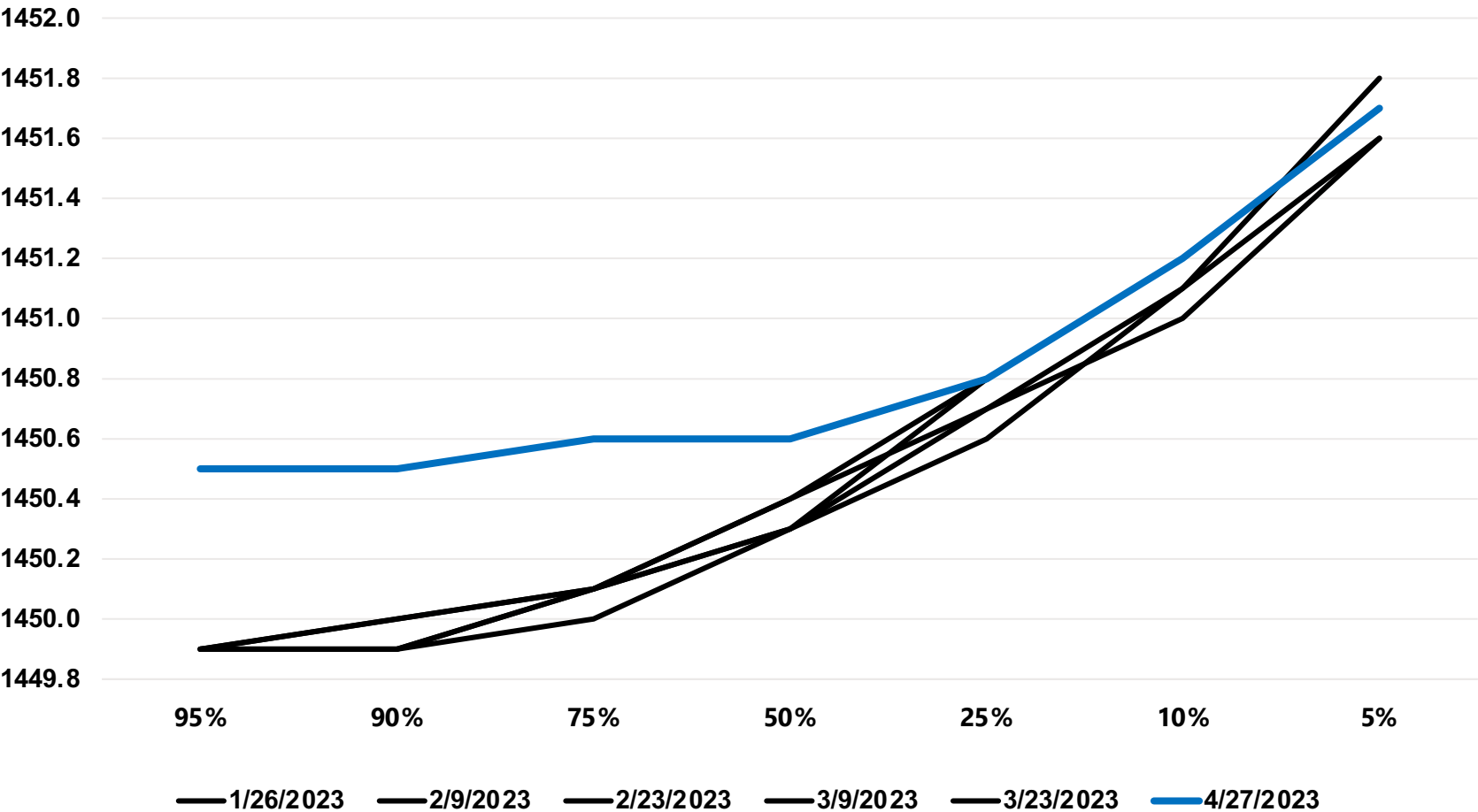
## First Non-Exceedance Outlook

Thursday,  
June 22, 2023



# OUTLOOK PROBABILITIES

2023 Devils Lake Outlooks



Current Lake Level

Creel Bay  
1450.67 ft (5/16)

Stump Lake  
1450.47 ft (5/16)

Next Outlook

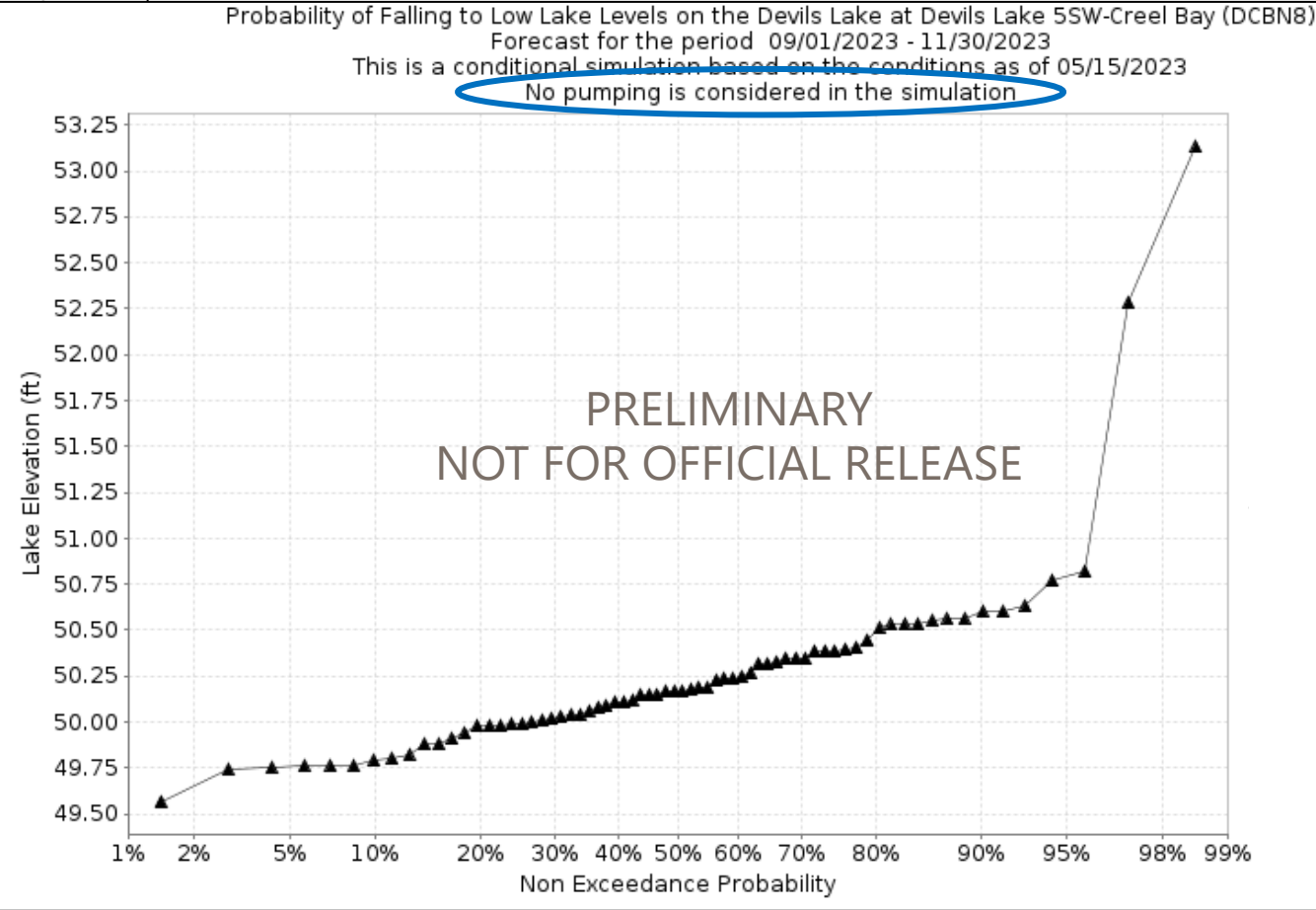
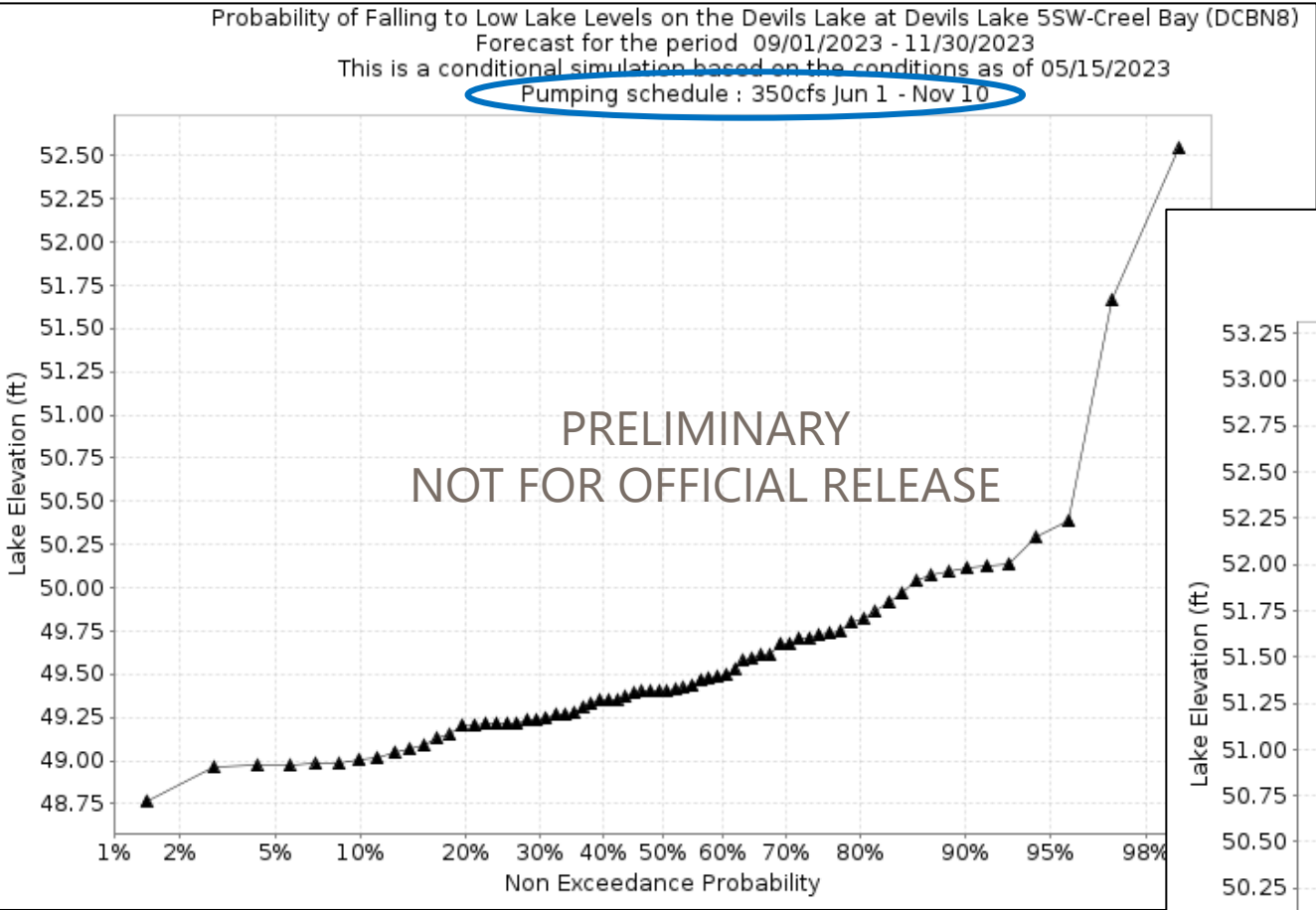
Thursday,  
May 25, 2023

First Non-Exceedance Outlook

Thursday,  
June 22, 2023



# NON-EXCEEDANCE PROBABILITIES



First non-exceedance probabilities to be issued Thursday, June 22, 2023

# NATIONAL WEATHER SERVICE UPDATE

Amanda Lee  
NWS Grand Forks  
[amanda.lee@noaa.gov](mailto:amanda.lee@noaa.gov)

